

In the claims:

Please enter the following amendments.

Please cancel, without prejudice, claims 39, 77, and 153.

1-37. **(Cancelled)**

38. **(Currently amended)** A method of imparting motion to a fluid to impart motion to a biological sample located in the fluid, said method comprising,
providing an acoustic source for generating adapted to generate an a focused acoustic field, wherein said acoustic source generates a wavetrain substantially converging in a focal zone having a diameter less than or equal to 2 cm, and ~~selectively~~ directing said focused acoustic field to at least one nucleation feature located proximate to the sample located in the fluid ~~an active site~~ to impart motion to the fluid and to the sample located a ~~constituent~~ in the fluid proximate to said nucleation feature ~~active site~~.

39. **(Cancelled)**

40. **(Previously presented)** The method of claim 38, wherein said step of directing said acoustic field comprises, adjusting a relative position between said acoustic source and said at least one nucleation feature to bring at least one nucleation feature within a focal zone of said acoustic source.

41-42. **(Cancelled)**

43. **(Original)** The method of claim 38, wherein said fluid contacts a first surface, and said first surface includes said at least one nucleation feature.

44. **(Cancelled)**

45. **(Original)** The method of claim 43, wherein said first surface is a surface of a microchamber.

46. **(Cancelled)**

47. **(Previously presented)** The method of claim 43, wherein said at least one nucleation feature includes at least one of a pit, crevice, scratch, groove and ridge in said first surface.

48-50. **(Cancelled)**

51. **(Original)** The method of claim 43, wherein said fluid has a volume between about 0.1 pl and about 10 ml.

52-53. **(Cancelled)**

54. **(Original)** The method of claim 38, wherein said fluid is contained in a microchamber.

55-62. **(Cancelled)**

63. **(Original)** The method of claim 38, wherein said motion imparted to said fluid is of sufficient magnitude to cause a mixing action in said fluid.

64-67. **(Cancelled)**

68. **(Currently amended)** The method of claim 38 comprising, prior to said step of directing said acoustic field, positioning said at least one nucleation feature proximate to said sample an active site.

69-112. **(Cancelled)**

113. **(Currently amended)** An apparatus for imparting motion to a fluid to impart motion to a biological sample located in the fluid, said apparatus comprising,

an acoustic source ~~for generating~~ adapted to generate an a focused acoustic field, wherein said acoustic source generates a wavetrain substantially converging in a focal zone having a diameter less than or equal to 2 cm, and

a controller adapted to control operation of said focused acoustic source, wherein said apparatus directs ~~is further adapted to direct~~ said acoustic field and selectively focuses said field to at least one nucleation feature located proximate to the sample located in the fluid ~~an active site~~ to impart motion to ~~a constituent in the fluid and to the sample located in the fluid proximate to said nucleation feature~~ fluid proximate to said active site.

114. **(Original)** The apparatus of claim 113, wherein said acoustic source is further adapted to provide said direction of said acoustic field, and to provide said acoustic field as a focused acoustic field to said at least one nucleation feature.

115. **(Currently amended)** The apparatus of claim 113 further comprising, a positioning mechanism ~~adapted adjust~~ for adjusting a relative position between said acoustic source and said at least one nucleation feature, to bring said at least one nucleation feature within a focal zone of said acoustic source.

116-117. **(Cancelled)**

118. **(Original)** The apparatus of claim 113, wherein said fluid contacts a first surface and said at said first surface includes said at least one nucleation feature.

119. **(Cancelled)**

120. **(Original)** The apparatus of claim 118, wherein said first surface is a surface of a microchamber.

121. **(Cancelled)**

122. **(Previously presented)** The apparatus of claim 118, wherein said at least one nucleation feature includes at least one of a pit, crevice, scratch, groove and ridge in said first surface.

123-125. **(Cancelled)**

126. **(Original)** The apparatus of claim 118, wherein said fluid has a volume between about 0.1 pl and about 10 ml.

127-128. **(Cancelled)**

129. **(Original)** The apparatus of claim 113, wherein said fluid is contained in a microchamber.

130-136. **(Cancelled)**

137. **(Original)** The apparatus of claim 113, wherein said motion imparted to said fluid is of sufficient magnitude to cause a mixing action in said fluid.

138-141. **(Cancelled)**

142. **(Currently amended)** The apparatus of claim 113, wherein said apparatus is further adapted to direct said acoustic field with sufficient specificity to promote mixing of a portion of said fluid proximate to said sample ~~active site~~.

143-150. **(Cancelled)**

151. **(Previously presented)** The method of claim 38, wherein said fluid is contained in a microvessel.

152. **(Previously presented)** The apparatus of claim 113, wherein said fluid is contained in a microvessel.

153. **(Cancelled)**